

# Tobra-day®, Tobramycin 500mg in 5mL Injection

# Phebra Pty Ltd

Chemwatch: 26-8232 Version No: 2.1.1.1

Safety Data Sheet according to WHS and ADG requirements

### Chemwatch Hazard Alert Code: 2

Issue Date: **27/06/2017** Print Date: **02/03/2018** S.GHS.AUS.EN

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

# **Product Identifier**

Product name	Tobra-day®, Tobramycin 500mg in 5mL Injection
Synonyms	Not Available
Other means of identification	Not Available

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Tobra-Day Injection is indicated for once daily intravenous use in the treatment of cystic fibrosis patients (>5 years old) with acute pulmonary exacerbations caused by susceptible organisms.

# Details of the supplier of the safety data sheet

Registered company name	Phebra
Address	19 Orion Road Lane Cove West NSW 2066 Australia
Telephone	+61 2 9420 9199 1800 720 020
Fax	+61 2 9420 9177
Website	www.phebra.com
Email	info@phebra.com

### **Emergency telephone number**

Association / Organisation	Not Available
Emergency telephone numbers	+61 401 264 004
Other emergency telephone numbers	N/A

# **SECTION 2 HAZARDS IDENTIFICATION**

# Classification of the substance or mixture

Poisons Schedule	\$4	
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Reproductive Toxicity Category 2, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation)	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	

# Label elements

# Hazard pictogram(s)





SIGNAL WORD WARNING

# Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H335	May cause respiratory irritation.

# Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P271	Use only outdoors or in a well-ventilated area.
P281	Use personal protective equipment as required.
P261	Avoid breathing mist/vapours/spray.

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Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/attention.	
P362	e off contaminated clothing and wash before reuse.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P312	Call a POISON CENTER or doctor/physician if you feel unwell.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	

# Precautionary statement(s) Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

### Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

# **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
49842-07-1	10	tobramycin sulfate
7732-18-5	90	water

# **SECTION 4 FIRST AID MEASURES**

# Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  • Wash out immediately with fresh running water.  • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  • Seek medical attention without delay; if pain persists or recurs seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  ► Immediately remove all contaminated clothing, including footwear.  ► Flush skin and hair with running water (and soap if available).  ► Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Aminoplycoside antibiotics may be removed by haemodialysis or to a lesser extent by peritoneal dialysis. Calcium salts given intravenously have been used to counter neuromuscular blockade; the effectiveness of neostigmine has been variable.

MARTINDALE: The Extra Pharmacopoeia, 29th Edition.

# **SECTION 5 FIREFIGHTING MEASURES**

# **Extinguishing media**

- ► There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

# Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

# Advice for firefighters

Fire Fighting

- ► Alert Fire Brigade and tell them location and nature of hazard.
- ▶ Wear breathing apparatus plus protective gloves in the event of a fire.
- ▶ Prevent, by any means available, spillage from entering drains or water courses.

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	<ul> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul>
HAZCHEM	Not Applicable

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

# Personal precautions, protective equipment and emergency procedures

See section 8

# **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	Moderate hazard.  Clear area of personnel and move upwind.  Alert Fire Brigade and tell them location and nature of hazard.  Wear breathing apparatus plus protective gloves.  Prevent, by any means available, spillage from entering drains or water course.  Stop leak if safe to do so.  Contain spill with sand, earth or vermiculite.  Collect recoverable product into labelled containers for recycling.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 HANDLING AND STORAGE**

DO NOT allow clothing wet with material to stay in contact with skin     Avoid all personal contact, including inhalation.     Wear protective clothing when risk of exposure occurs.     Use in a well-ventilated area.     Prevent concentration in hollows and sumps.     DO NOT enter confined spaces until atmosphere has been checked.     DO NOT allow material to contact humans, exposed food or food utensils.     Avoid contact with incompatible materials.     When handling, DO NOT eat, drink or smoke.
Store in original containers. Keep containers securely sealed.

# Other information

- ▶ Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.
- ▶ Protect containers against physical damage and check regularly for leaks.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

|Store between 2-8 degree C.

# Conditions for safe storage, including any incompatibilities

Suitable container

- ► Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- ► Check all containers are clearly labelled and free from leaks.

Storage incompatibility

None known

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Control parameters**

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

# INGREDIENT DATA

Not Available

# **EMERGENCY LIMITS**

1				
Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Tobra-day®, Tobramycin 500mg in 5mL Injection	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	

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tobramycin sulfate	Not Available	Not Available
water	Not Available	Not Available

#### **Exposure controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

# Appropriate engineering Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions.

# Personal protection

controls





Safety glasses with side shields







# Eye and face protection

# Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the

class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly.

#### Skin protection

#### See Hand protection below

#### ► Wear chemical protective gloves, e.g. PVC.

▶ Wear safety footwear or safety gumboots, e.g. Rubber

# Hands/feet protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Suitability and durability of glove type is dependent on usage.

# Body protection

# See Other protection below

# Other protection

- Overalls.
- P.V.C. apron.Barrier cream.
- ► Skin cleansing cream.
- ▶ Eye wash unit.
- Thermal hazards

Not Available

# Recommended material(s)

# GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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Material	СРІ
BUTYL	С
NATURAL RUBBER	С
NEOPRENE	С
PVA	С
VITON	С

- \* CPI Chemwatch Performance Index
- A: Best Selection
- B: Satisfactory; may degrade after 4 hours continuous immersion
- C: Poor to Dangerous Choice for other than short term immersion

 $\mbox{NOTE}:$  As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

# Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	-AUS / Class1 P2	-
up to 50	1000	-	-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	-2 P2
up to 100	10000	-	-3 P2
100+			Airline**

\* - Continuous Flow \*\* - Continuous-flow or positive pressure demand A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

# Information on basic physical and chemical properties

Appearance

 $To bra-Day\ Injection\ is\ a\ clear,\ straw\ coloured\ solution;\ mixes\ with\ water. | To bra-Day\ Injection\ is\ an\ aqueous\ solution.$ 

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Physical state Odour Not Available Partition coefficient n-octanol / water Odour threshold Not Available Auto-ignition temperature (°C) Not Available Permission temperature (°C) Not Available Permission temperature (°C) Not Available Permission temperature tempera				
Odour threshold       Not Available       Not Available       Not Available         PH (as supplied)       3.5-6       Decomposition temperature       Not Available         Melting point / freezing point (°C)       Not Available       Viscosity (cSt)       Not Available         Initial boiling point and boiling range (°C)       Not Available       Molecular weight (g/mol)       Not Applicable         Flash point (°C)       Not Available       Taste       Not Available         Evaporation rate       Not Available       Explosive properties       Not Available         Flammability       Not Available       Oxidising properties       Not Available         Upper Explosive Limit (%)       Not Available       Surface Tension (dyn/cm or mN/m)       Not Available         Lower Explosive Limit (%)       Not Available Component (%vol)       Not Available         Vapour pressure (kPa)       Not Available       Gas group       Not Available         Solubility in water (g/L)       Miscible       pH as a solution (1%)       Not Available	Physical state	Liquid	Relative density (Water = 1)	1.08
pH (as supplied)       3.5-6       Decomposition temperature       Not Available         Melting point / freezing point (°C)       Not Available       Viscosity (cSt)       Not Available         Initial boiling point and boiling range (°C)       Not Available       Molecular weight (g/mol)       Not Applicable         Flash point (°C)       Not Available       Taste       Not Available         Evaporation rate       Not Available       Explosive properties       Not Available         Flammability       Not Available       Oxidising properties       Not Available         Upper Explosive Limit (%)       Not Available       Surface Tension (dyn/cm or mN/m)       Not Available         Lower Explosive Limit (%)       Not Available       Volatile Component (%vol)       Not Available         Vapour pressure (kPa)       Not Available       Gas group       Not Available         Solubility in water (g/L)       Miscible       pH as a solution (1%)       Not Available	Odour	Not Available		Not Available
Melting point / freezing point (°C)       Not Available       Viscosity (cSt)       Not Available         Initial boiling point and boiling range (°C)       Not Available       Molecular weight (g/mol)       Not Applicable         Flash point (°C)       Not Available       Taste       Not Available         Evaporation rate       Not Available       Explosive properties       Not Available         Flammability       Not Available       Oxidising properties       Not Available         Upper Explosive Limit (%)       Not Available       Surface Tension (dyn/cm or mN/m)       Not Available         Lower Explosive Limit (%)       Not Available       Volatile Component (%vol)       Not Available         Vapour pressure (kPa)       Not Available       Gas group       Not Available         Solubility in water (g/L)       Miscible       pH as a solution (1%)       Not Available	Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
Initial boiling point and boiling range (°C)  Not Available  Not Available  Not Available  Flash point (°C)  Not Available  Evaporation rate  Not Available  Not Available  Flammability  Not Available  Oxidising properties  Not Available  Not Available  Oxidising properties  Not Available  Not Available  Volatile Component (%vol)  Not Available  Vapour pressure (kPa)  Not Available  Not Available  Not Available  Not Available  Volatile Component (%vol)  Not Available  Ras group  Not Available	pH (as supplied)	3.5-6	Decomposition temperature	Not Available
range (°C) Not Available Molecular weight (g/mol) Not Applicable  Flash point (°C) Not Available Taste Not Available  Evaporation rate Not Available Explosive properties Not Available  Flammability Not Available Oxidising properties Not Available  Upper Explosive Limit (%) Not Available Surface Tension (dyn/cm or mN/m)  Lower Explosive Limit (%) Not Available Volatile Component (%vol) Not Available  Vapour pressure (kPa) Not Available Gas group Not Available  Solubility in water (g/L) Miscible pH as a solution (1%) Not Available		Not Available	Viscosity (cSt)	Not Available
Evaporation rate       Not Available       Explosive properties       Not Available         Flammability       Not Available       Oxidising properties       Not Available         Upper Explosive Limit (%)       Not Available       Surface Tension (dyn/cm or mN/m)       Not Available         Lower Explosive Limit (%)       Not Available       Volatile Component (%vol)       Not Available         Vapour pressure (kPa)       Not Available       Gas group       Not Available         Solubility in water (g/L)       Miscible       pH as a solution (1%)       Not Available		Not Available	Molecular weight (g/mol)	Not Applicable
Flammability Not Available Oxidising properties Not Available  Upper Explosive Limit (%) Not Available Surface Tension (dyn/cm or mN/m) Not Available  Lower Explosive Limit (%) Not Available Volatile Component (%vol) Not Available  Vapour pressure (kPa) Not Available Gas group Not Available  Solubility in water (g/L) Miscible pH as a solution (1%) Not Available	Flash point (°C)	Not Available	Taste	Not Available
Upper Explosive Limit (%)     Not Available     Surface Tension (dyn/cm or mN/m)     Not Available       Lower Explosive Limit (%)     Not Available     Volatile Component (%vol)     Not Available       Vapour pressure (kPa)     Not Available     Gas group     Not Available       Solubility in water (g/L)     Miscible     pH as a solution (1%)     Not Available	Evaporation rate	Not Available	Explosive properties	Not Available
Upper Explosive Limit (%) Not Available	Flammability	Not Available	Oxidising properties	Not Available
Vapour pressure (kPa)     Not Available     Gas group     Not Available       Solubility in water (g/L)     Miscible     pH as a solution (1%)     Not Available	Upper Explosive Limit (%)	Not Available	, -	Not Available
Solubility in water (g/L) Miscible pH as a solution (1%) Not Available	Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
	Vapour pressure (kPa)	Not Available	Gas group	Not Available
Vapour density (Air = 1)     Not Available       VOC g/L     Not Available	Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
	Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 TOXICOLOGICAL INFORMATION**

# Information on toxicological effects

The material can cause respiratory irritation in some person Not normally a hazard due to non-volatile nature of product	s. The body's response to such irritation can cause further lung damage.	
The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.  When given by mouth, injected, or applied as an aerosol to open wounds, aminoglycoside antibiotics may cause irreversible, total or partial deafness. This deafness is dose-related.		
This material can cause inflammation of the skin on contact in some persons.  The material may accentuate any pre-existing dermatitis condition  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
This material can cause eye irritation and damage in some p	persons.	
Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems.  Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.  There is some evidence from animal testing that exposure to this material may result in toxic effects to the unborn baby.  Exposure to the material for prolonged periods may cause physical defects in the developing embryo (teratogenesis).		
TOXICITY	IRRITATION	
Not Available	Not Available	
TOXICITY	IRRITATION	
Oral (mouse) LD50: >10500 mg/kg $^{[2]}$	Not Available	
TOXICITY	IRRITATION	
Not Available	Not Available	
Value obtained from Europe ECHA Registered Substance	es - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified	
	Not normally a hazard due to non-volatile nature of product The material has NOT been classified by EC Directives or of corroborating animal or human evidence. When given by mouth, injected, or applied as an aerosol to of deafness is dose-related.  This material can cause inflammation of the skin on contact in the material may accentuate any pre-existing dermatitis confopen cuts, abraded or irritated skin should not be exposed to Entry into the blood-stream, through, for example, cuts, abrafuse of the material and ensure that any external damage is some public that the product of the material and ensure that any external damage in some public that the product of the material can cause eye irritation and damage in some public that the product of the material can cause that any external damage in some public that the product of the material can cause that any external damage in some public that the product of the product of the product of the product of the material for prolonged periods may cause public that the product of the material for prolonged periods may cause public that the product of the pr	

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Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or

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	asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.			
Tobra-day®, Tobramycin 500mg in 5mL Injection & WATER	No significant acute toxicological data identified in literature search.			
Acute Toxicity	0	Carcinogenicity	0	
Skin Irritation/Corrosion	✓	Reproductivity	✓	
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓	
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0	
Mutagenicity	0	Aspiration Hazard	0	

Legend:

🗶 – Data available but does not fill the criteria for classification

— Data available to make classification

O - Data Not Available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

Tabaa da S Tabaanaa in 500aan	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Tobra-day®, Tobramycin 500mg in 5mL Injection	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
tobramycin sulfate	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
water	Not Available	Not Available	Not Available	Not Available	Not Available

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

# DO NOT discharge into sewer or waterways

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
water	LOW (LogKOW = -1.38)

# Mobility in soil

Ingredient	Mobility
water	LOW (KOC = 14.3)

# **SECTION 13 DISPOSAL CONSIDERATIONS**

# Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ► Reduction
- Reuse
- Recycling
- ► Disposal (if all else fails)

# Product / Packaging disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- ▶ It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- ▶ Where in doubt contact the responsible authority.
- Recycle wherever possible.
- ▶ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified
- ▶ Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after

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- admixture with suitable combustible material)
- ▶ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

### **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

**Marine Pollutant** NO HAZCHEM Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

# **SECTION 15 REGULATORY INFORMATION**

Safety, health and environmental regulations / legislation specific for the substance or mixture

TOBRAMYCIN SULFATE(49842-07-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

### WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Y
Canada - NDSL	N (tobramycin sulfate; water)
China - IECSC	N (tobramycin sulfate)
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	N (tobramycin sulfate)
Korea - KECI	N (tobramycin sulfate)
New Zealand - NZIoC	N (tobramycin sulfate)
Philippines - PICCS	N (tobramycin sulfate)
USA - TSCA	N (tobramycin sulfate)
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

# **SECTION 16 OTHER INFORMATION**

# Other information

# Ingredients with multiple cas numbers

Name	CAS No
tobramycin sulfate	49842-07-1, 79645-27-5

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

# **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancel

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

TLV: Threshold Limit Value

NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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